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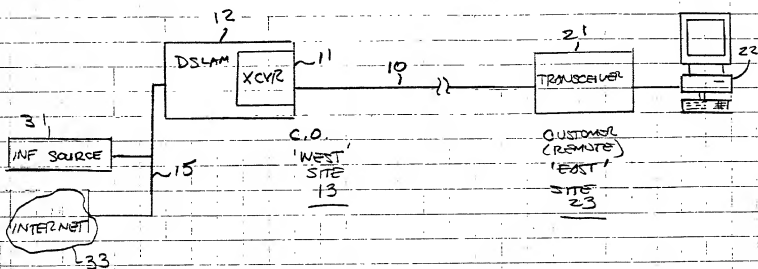


FIGURE 1 (PRINCE MIT)

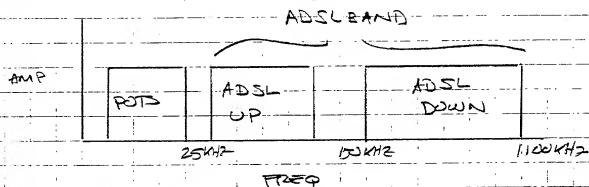


FIG 2 (PRINCE MIT)

FIGURE 3

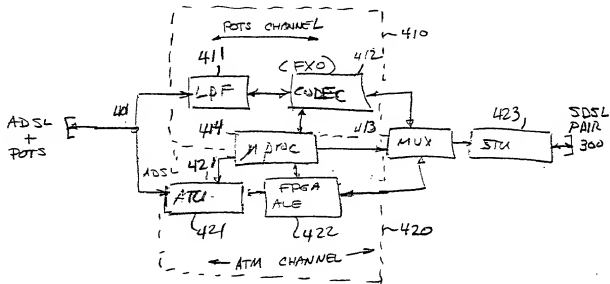
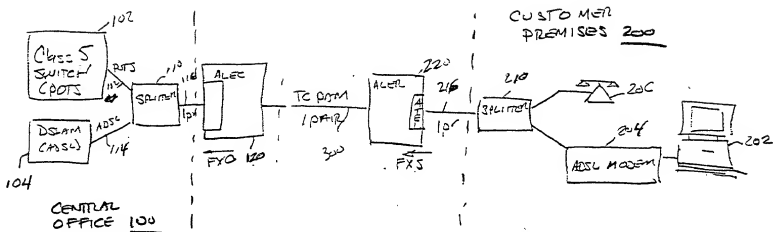


FIGURE 4

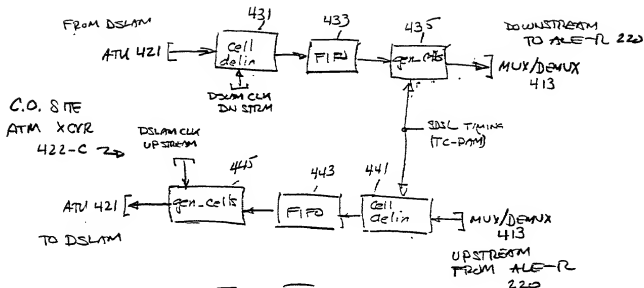


FIG. 5

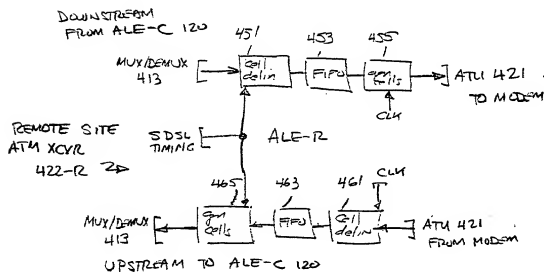


FIG. 6

DSLAM LINK

Downstream

$N = \text{DSLAM downstream}$

$N \times 32K$

$\frac{+8K}{\text{IDLE CELL INS. RATE}}$

SDSL LINK  
300

$(N \times 32K) + 8K$

$\frac{+24K}{\text{IDLE CELL INS. RATE}}$

ADSL Modem Link

$(N+1) \times 32K$

Upstream

if DSLAM upstream  $\leq$  SDSL rate

$M = \text{DSLAM upstream}$

$M \times 32K$

$\frac{+24K}{\text{IDLE CELL INS. RATE}}$

$[(M-1) \times 32K] + 8K$

$\frac{+8K}{\text{IDLE CELL INS. RATE}}$

$(M-1) \times 32K$

if DSLAM upstream  $>$  SDSL rate

$p = \text{SDSL rate}$

$M = \text{DSLAM upstream}$

$(M \times 32K)$

$[p \times 32K] + 8K$

$\frac{[(M-p-1) \times 32K] + 24K}{\text{IDLE CELL INS. RATE}}$

$p \times 32K$

$\frac{+8K}{\text{IDLE CELL INS. RATE}}$

FIGURE 7